

CLAIMS:

1. A light directing film comprising:
a first surface;
a structured surface opposite the first surface, the structured surface having an array of prism elements, the array of prism elements further comprising:
first prism elements having blunt tips, the blunt tips being disposed at a first distance from a reference plane disposed between the first surface and the structured surface; and
second prism elements having sharp tips, the sharp tips being disposed at a second distance from the reference plane, the second distance measuring less than the first distance.
2. The light directing film of claim 1 wherein the blunt tip is substantially flat.
3. The light directing film of claim 1 wherein the blunt tip is curved.
4. The light directing film of claim 1 wherein the first prism elements comprise no more than about 50% of the array.
5. The light directing film of claim 1 wherein at least one second prism element is interleaved between a pair of first prism elements.
6. The light directing film of claim 1 wherein a width of the blunt tip is from greater than 0% to less than about 40% of a width of a base of the first prism element.

7. The light directing film of claim 1 wherein a width of the blunt tip measures from about 1 μm to about 20 μm .
8. The light directing film of claim 1 wherein the second distance measures about 2 μm to about 5 μm less than the first distance.
9. A light directing film comprising:
 - a first surface;
 - a structured surface opposite the first surface, the structured surface having an array of interleaved first and second prism elements, the first prism elements having blunt tips that define an outer plane, the second prism elements having sharp tips that are recessed with respect to the outer plane.
10. The light directing film of claim 9 wherein the sharp tips are recessed about 2 μm to about 5 μm from the outer plane.
11. The light directing film of claim 9 wherein the blunt tips are relatively flat.
12. The light directing film of claim 9 wherein the blunt tips are curved.
13. The light directing film of claim 9 wherein the first prism elements comprise up to about 50% of the array.
14. The light directing film of claim 9 wherein at least one second prism element is interleaved between a pair of first prism elements.

15. The light directing film of claim 9 wherein a width of the blunt tips is from greater than 0% to less than about 40% of a width of a base of the first prism element.
16. A light directing film comprising:
 - a first surface; and
 - a structured surface opposite the first surface, the structured surface having an array of interleaved first and second prism elements, the first prism elements having blunt tips that define at least one outer plane, the second prism elements having sharp tips that define at least one inner plane.
17. A light directing film comprising:
 - a first surface; and
 - a structured surface opposite the first surface, the structured surface having an array of interleaved first and second prism elements, the first prism elements having blunt tips that define a plurality of outer planes, the second prism elements having sharp tips that define a plurality of inner planes, the inner planes being recessed with respect to the outer planes.
18. A light directing article comprising:
 - a first light directing film having a first surface, a first structured surface opposite the first surface and a reference plane between the first surface and the first structured surface, the first structured surface having a linear array of first prism elements and second prism elements oriented along a first major axis, the first and second prism elements arranged in a repeating pattern wherein at least one second prism element is interleaved between at least a pair of first prism

elements, the first prism elements having blunt tips disposed at a first distance from the reference plane, and the second prism elements having sharp tips disposed at a second distance from the reference plane that is less than the first distance;

a second light directing film having a substantially planar surface disposed adjacent the first structured surface of the first light directing film, the second light directing film having a second structured surface opposite the substantially planar surface, the second structured surface having a linear array of prism elements oriented along a second major axis; and

wherein the first major axis intersects the second major axis at an angle which minimizes optical coupling.

19. An optical display comprising:

a light source;

a viewing screen; and

light transfer means for directing light from the light source to the viewing screen, the light transfer means including at least a first light directing film, the light directing film having a first surface, a structured surface opposite the first surface and a reference plane between the first surface and the structured surface, the structured surface having an array of first prism elements and second prism elements, the first prism elements having blunt tips, and the second prism elements having sharp tips, the blunt tips disposed at a first distance from the reference plane, and the sharp tips disposed at a second distance from the reference plane, the second distance being less than the first distance.

20. The optical display of claim 19 wherein at least one second prism element is interleaved between a pair of first prism elements.
21. The optical display of claim 19 wherein the blunt tips are substantially flat.
22. The optical display of claim 19 wherein the blunt tips are curved.